



September 15, 2017

Mr. Anthony Krone  
Risk Manager  
Shelby County Schools  
160 South Hollywood – Room 152  
Memphis, Tennessee 38112

**RE: Lead in Drinking Water Sampling  
Oakhaven Middle & High School  
3125 Ladbroke Road  
Memphis, Tennessee  
Tioga Project No.: 24816.01**

Dear Mr. Krone,

At the request of Shelby County Schools (the Client), Tioga Environmental Consultants (Tioga) performed sampling of drinking water sources at Oakhaven Middle & High School for laboratory analysis of total lead concentrations.

As preliminary sampling of select water sources at this school revealed the potential for elevated lead levels in the potable water system, Tioga recommended additional sampling of all water fountains in the school to determine the extent of the issue. Following the receipt of the laboratory analytical results from the initial sampling event, Tioga informed Shelby County Schools Risk Management personnel, who instructed maintenance personnel to take the water fountains at this school out of service pending further testing.

Prior to this additional sampling event, the water fountains throughout the school had been shut off for approximately four days. Sampling was conducted early in the morning, before any potable water sources had been used for the day and prior to the arrival of any students or faculty. Maintenance personnel reactivated the water fountains immediately prior to sampling, and the water fountains were deactivated and taken out of service immediately following the sampling.

On September 12, 2017, Tioga representative Margaret Strom arrived onsite and was escorted through the building by Shelby County Schools personnel. First-draw potable water samples were collected in accordance with the Environmental Protection Agency (EPA) regulations codified in 40 CFR 141.86, and were documented and transferred under chain-of-custody protocol to Waypoint Analytical Laboratories in Memphis, Tennessee for analysis of total lead content.

**Down-to-earth partners. Sky's-the-limit solutions.**

The EPA has established an action level for public water supply systems at 15 micrograms of lead per liter of water (15 µg/L). The further EPA recommends that schools remove water fountains and other outlets used for consumption if lead levels exceed 20 µg/L. Though this school uses water from the municipal water supply and therefore does not qualify as a public water supply system, Tioga recommends that the more conservative EPA action level of 15 µg/L be used in the decision making process as to the continued operation of the potable water sources at the school.

**Results Based on Laboratory Analysis:**

Table 1 below summarizes the sampling locations, laboratory analytical results, and EPA action level for lead in drinking water. Sample results with a "<" symbol did not contain lead content above the laboratory detection limit. Samples highlighted in yellow exceeded the EPA action level for lead.

**Table 1  
Summary of Analytical Results  
Oakhaven Middle & High School  
September 12, 2017**

Sample ID	Sample Location	Total Lead (µg/L)	EPA Action Level (µg/L)
31-1	High School – Water Fountain Across from Room 219	5550	15
31-2	Middle School – Water Fountain Across from Room 223	47.6	
31-3	Middle School – Water Fountain Near Room 224	26.1	
31-4	High School – Water Fountain Across from Room 218	89.0	
31-5	High School – Water Fountain Across from Room 214	2290	
31-6	High School – Water Fountain Across from Room 212	822	
31-7	High School – Water Fountain Near Room 210	13.6	
31-8	High School – Water Fountain Across from Room 208	1.75	
31-9	High School – Water Fountain Across from Room 213	1270	
31-10	Middle School – Water Fountain Across from Room 120	18.1	
31-11	Middle School – Water Fountain Across from Room 126	364	
31-12	Middle School – Water Fountain Near Room 121	1.05	
31-13	Cafeteria Water Fountain	86.8	
31-14	Vocational / Band Water Fountain	57.2	
31-15	ROTC Water Fountain	8.98	
31-16	High School – Gym Water Fountain	6.87	
31-17	Water Fountain in Football Locker Room	<0.513	
31-18	Middle School – Gym Water Fountain	1.59	
31-19	High School – Auditorium Double Water Fountain	7.29	
31-20	High School – Auditorium Single Water Fountain	592	
31-21	Elementary – Water Fountain Near Room 101 (Bubbler)	58.1	
31-22	Elementary – Tall Water Fountain Near Room 101	0.558	
31-23	Elementary – Water Fountain Near Room 203 (Bubbler)	0.859	
31-24	Elementary – Cafeteria Water Fountain	0.909	

(µg/L) = Micrograms of lead per liter of water (parts per billion)

A review of the laboratory analytical results of the water samples collected revealed thirteen samples with total lead concentrations above the EPA action level for drinking water. The water fountains in the high school across from rooms 103 and 203 were not functional, therefore no sample was collected from these fountains.

**Recommendations:**

Based upon the laboratory analytical results of the potable water samples collected from Oakhaven Middle & High School, Tioga recommends that the water sources above the EPA action level remain out of use.

The EPA provides technical guidance for reducing lead in drinking water in schools published in the October 2006 revision of the “3Ts for Reducing Lead in Drinking Water in Schools”. Tioga recommends that a plan be developed and implemented in accordance with this guidance with additional testing to identify potential sources of lead in this school and to remediate these sources as they are identified. As the next step in determining the sources of lead contamination, Tioga recommends follow-up post-flush testing for water sources that exceeded the EPA action level.

**Limitations**

Potable water sources with elevated lead levels may potentially be present in areas of the property that are not addressed with this report. This investigation only included the potable water sources specifically addressed.

We appreciate the opportunity to provide you with this service. Should you have any questions regarding this report, please contact me at (901) 791-2432.

Sincerely,  
TIOGA ENVIRONMENTAL CONSULTANTS, INC.



Eric Davis, CIE  
Environmental Scientist

**Enclosure: (1) Laboratory Analytical Report**

9/14/2017

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis, TN, 38103

Ref: Analytical Testing  
Lab Report Number: 17-255-0249  
Client Project Description: 31-All  
Project #24816.01

Dear Mr. Luke Hall:

Waypoint Analytical, Inc. received sample(s) on 9/12/2017 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

*Rendell H. Thomas*

Randy Thomas  
Project Manager

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	



06510

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis , TN 38103

Project 31-All  
Information : Project #24816.01

Report Date : 9/14/2017

Report Number : **17-255-0249**

**REPORT OF ANALYSIS**

Received : 9/12/2017

Lab No : **91788**

Sample ID : **31-1**

Matrix: **Aqueous**

Sampled: **9/12/2017 5:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>5550</b>	µg/L	0.500	1	09/14/17 13:13	BKN	EPA-200.8

Lab No : **91789**

Sample ID : **31-2**

Matrix: **Aqueous**

Sampled: **9/12/2017 5:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>47.6</b>	µg/L	0.513	1	09/13/17 23:37	BKN	EPA-200.8

Lab No : **91790**

Sample ID : **31-3**

Matrix: **Aqueous**

Sampled: **9/12/2017 5:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>26.1</b>	µg/L	0.513	1	09/13/17 23:48	BKN	EPA-200.8

Lab No : **91791**

Sample ID : **31-4**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>89.0</b>	µg/L	0.500	1	09/14/17 13:17	BKN	EPA-200.8

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

06510

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis , TN 38103

Project 31-All  
Information : Project #24816.01

Report Date : 9/14/2017

Report Number : **17-255-0249**

**REPORT OF ANALYSIS**

Received : 9/12/2017

Lab No : **91792**

Sample ID : **31-5**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>2290</b>	µg/L	0.500	1	09/14/17 13:22	BKN	EPA-200.8

Lab No : **91793**

Sample ID : **31-6**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>822</b>	µg/L	0.500	1	09/14/17 13:27	BKN	EPA-200.8

Lab No : **91794**

Sample ID : **31-7**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>13.6</b>	µg/L	0.513	1	09/13/17 23:53	BKN	EPA-200.8

Lab No : **91795**

Sample ID : **31-8**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>1.75</b>	µg/L	0.513	1	09/13/17 23:58	BKN	EPA-200.8

**Qualifiers/  
Definitions**

DF Dilution Factor

MQL Method Quantitation Limit

06510

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis , TN 38103

Project 31-All  
Information : Project #24816.01

Report Date : 9/14/2017

Report Number : **17-255-0249**

**REPORT OF ANALYSIS**

Received : 9/12/2017

Lab No : **91796**

Sample ID : **31-9**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:24**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>1270</b>	µg/L	0.500	1	09/14/17 13:32	BKN	EPA-200.8

Lab No : **91797**

Sample ID : **31-10**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>18.1</b>	µg/L	0.513	1	09/14/17 00:03	BKN	EPA-200.8

Lab No : **91798**

Sample ID : **31-11**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>364</b>	µg/L	0.513	1	09/14/17 00:08	BKN	EPA-200.8

Lab No : **91799**

Sample ID : **31-12**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>1.05</b>	µg/L	0.513	1	09/14/17 00:13	BKN	EPA-200.8

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

06510

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis , TN 38103

Project 31-All  
Information : Project #24816.01

Report Date : 9/14/2017

Report Number : **17-255-0249**

**REPORT OF ANALYSIS**

Received : 9/12/2017

Lab No : **91800**

Sample ID : **31-13**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>86.8</b>	µg/L	0.500	1	09/14/17 13:37	BKN	EPA-200.8

Lab No : **91801**

Sample ID : **31-14**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>57.2</b>	µg/L	0.513	1	09/14/17 00:18	BKN	EPA-200.8

Lab No : **91802**

Sample ID : **31-15**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>8.98</b>	µg/L	0.513	1	09/14/17 00:23	BKN	EPA-200.8

Lab No : **91803**

Sample ID : **31-16**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>6.87</b>	µg/L	0.513	1	09/14/17 00:28	BKN	EPA-200.8

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



06510

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis , TN 38103

Project 31-All  
Information : Project #24816.01

Report Date : 9/14/2017

Report Number : **17-255-0249**

**REPORT OF ANALYSIS**

Received : 9/12/2017

Lab No : **91804**

Sample ID : **31-17**

Matrix: **Aqueous**

Sampled: **9/12/2017 6:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<0.513	µg/L	0.513	1	09/14/17 00:33	BKN	EPA-200.8

Lab No : **91805**

Sample ID : **31-18**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>1.59</b>	µg/L	0.513	1	09/14/17 00:45	BKN	EPA-200.8

Lab No : **91806**

Sample ID : **31-19**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>7.29</b>	µg/L	0.513	1	09/14/17 00:50	BKN	EPA-200.8

Lab No : **91807**

Sample ID : **31-20**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>592</b>	µg/L	0.513	1	09/14/17 00:55	BKN	EPA-200.8

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

06510

Tioga Environmental Consultants  
Mr. Luke Hall  
357 North Main Street  
Memphis , TN 38103

Project 31-All  
Information : Project #24816.01

Report Date : 9/14/2017

Report Number : **17-255-0249**

## REPORT OF ANALYSIS

Received : 9/12/2017

Lab No : **91808**

Sample ID : **31-21**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>58.1</b>	µg/L	0.513	1	09/14/17 00:59	BKN	EPA-200.8

Lab No : **91809**

Sample ID : **31-22**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>0.558</b>	µg/L	0.513	1	09/14/17 01:38	BKN	EPA-200.8

Lab No : **91810**

Sample ID : **31-23**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:41**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>0.859</b>	µg/L	0.513	1	09/14/17 01:43	BKN	EPA-200.8

Lab No : **91811**

Sample ID : **31-24**

Matrix: **Aqueous**

Sampled: **9/12/2017 7:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Lead	<b>0.909</b>	µg/L	0.513	1	09/14/17 01:48	BKN	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

## Cooler Receipt Form

Customer Number: **06510**

Customer Name: **Tioga Environmental Consultants**

Report Number: **17-255-0249**

### Shipping Method

☐ Fed Ex      ☐ US Postal      ☐ Lab      ☐ Other :   
☐ UPS      ☒ Client      ☐ Courier      Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:



Kit ID:	0000085992
Initiated By:	Andy Parrish
Initiated Date:	9/8/2017
Project Comment	

## CHAIN-OF-CUSTODY



Company Name Tioga Environmental Consultants	Company Number 06510	Client Project Manager/Contact Mr. Luke Hall
Site Name 31-All	Project Number 24816.01	<input checked="" type="checkbox"/> RUSH - Additional charges apply 24hr <input type="checkbox"/> Special Detection Limits(s) Date Results Needed Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client Drop Off Other
LIMS Project ID	Project Manager Phone # (901) 791-2432	Project Manager Email edavis@tiogaenv.com Site/Facility ID # 24816.01

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
9/12/17	5:50	31-1	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	5:55	31-2	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	5:58	31-3	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:00	31-4	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:03	31-5	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:05	31-6	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:14	31-7	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:20	31-8	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments				
Ice	Custody Seals	Lab Comments	M. Strom	24 Hour TAT				
Y/N	Y/N		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			Maryann Strom	9/12/17	10:10	[Signature]	9/12/17	10:10
			[Signature]	9/12/17	12:37	[Signature]		
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
						C. Dungey	9/12/17	12:37





## CHAIN-OF-CUSTODY

Kit ID:	0000085992
Initiated By:	Andy Parrish
Initiated Date:	9/8/2017
Project Comment	



Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
Tioqa Environmental Consultants	06510	Mr. Luke Hall	
Site Name	Project Number	<input checked="" type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client Drop Off Other
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
	(901) 791-2432	lhall@tioqaenv.com	24816.01

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
	6:24	31-9	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:25	31-10	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:28	31-11	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:30	31-12	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:35	31-13	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:37	31-14	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:40	31-15	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	6:45	31-16	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW

For Laboratory Use Only			Sampled by (Name - Print)		Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	M. Strom		2LL hour TAT			
Y/N	Y/N		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			Mary Strom	9/12/17	10:10	[Signature]	9/12/17	10:10
			[Signature]	9/12/17	12:37	[Signature]		
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			[Signature]			C. Dwyer	9/12/17	12:37



Kit ID:	0000085992
Initiated By:	Andy Parrish
Initiated Date:	9/8/2017
Project Comment	

## CHAIN-OF-CUSTODY



Company Name	Company Number	Client Project manager / contact	
Tioga Environmental Consultants	06510	Mr. Luke Hall	
Site Name	Project Number	<input checked="" type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	<b>Method of Shipment</b> <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client Drop Off Other
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
	(901) 791-2432	edavis@tiogaenv.com lhall@tiogaenv.com	24816.01

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
9/12/17	6:50	31-17	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:10	31-18	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:25	31-19	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:26	31-20	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:37	31-21	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:40	31-22	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:41	31-23	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW
	7:45	31-24	Aqueous		1	Plastic - Pint	NONE	Total Lead/DW

For Laboratory Use Only			Sampled by (Name - Print)		Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	M. Strom		24 hour TAT			
Y/N	Y/N		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		

9/12/17 10:00  
 9/12/17 12:37  
 9/12/17 12:37